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ABSTRACT

The purpose of this book is to teach the basic principles of problem solving in both mathematical and non-mathematical problems. The major components of the book consist of learning to translate verbal discussion into analytical data, learning problem solving methods for attacking collections of analytical questions or data, and building a personal arsenal of solved problems and internalized problem solving techniques. This book can be used as a device for introducing students to the world of modern technology because of the connection it forms to other techniques and tools. The format incorporates exercises into the text, providing a challenge problem after solved problems. More than 350 problems are found at the end of the chapters with solutions available in a solutions manual. Mathematical topics covered in the book include inductive reasoning, logic, parity, planar geometry, solid geometry, analytic geometry, probability, recreational mathematics, and real life connections. (DDR)

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